

IES-0104FT

4-Port 10/100TX + 1-Port 100FX Industrial Switch

- Wide-range redundant power with polarity reverse protection
- Provides EFT & ESD protection
- Wide operating temperature range from -40°C to 70°C (-E model)



OVERVIEW

The Lantech IES-0104FT is a 4-port 10/100TX + 1-port 100FX Industrial Switch for plug-and-play installation. It can auto detect power inputs and supports wide input range from 9 to 56VDC/ -9 to -56VDC. To increase reliability, the IES-0104FT provides redundant power design with polarity reverse protection as well as EFT and ESD protections.

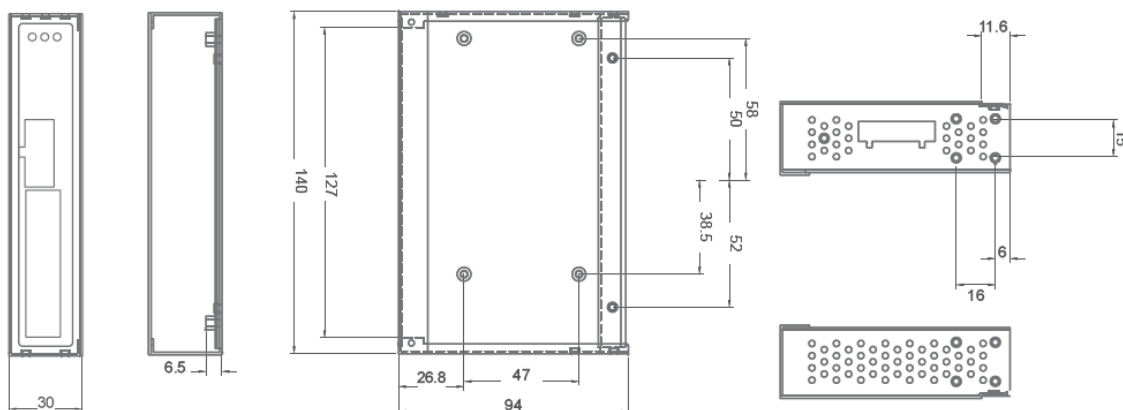
The Lantech IES-0104FT is designed to meet the demands of

industrial environments, comes packaged in a robust IP-30 housing and has been tested extensively to meet Industrial EMI and EMC standards. Rigorous mechanical testing has also been undertaken with free fall, shock, and vibration stability test, which ensure long term reliability in critical industrial environments. The -E model can be used in extreme environments with an operating temperature range from -40°C to 70°C.

FEATURES & BENEFITS

- RJ-45 port support Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Back-plane (Switching Fabric): 1.0Gbps
- 2K MAC address table
- Supports Wide Operating Temperature (-40°C~70°C)
- Provides EFT protection 2000VDC for power line
- Supports 6000 VDC Ethernet ESD protection
- Provides broadcast storm protection
- IP-30 Protection with DIN Rail and Wall Mount Design
- Power Supply
 - Wide-range Redundant Power Design
 - Power Polarity Reverse Protect
 - Overload Current Re-settable Fuse Present

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification		Power Supply	24 VDC (9~56VDC), 12~36VAC**, Redundant power with polarity reverse protect function and removable terminal block
Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE802.3x Flow Control and Back Pressure	Power Consumption	4.44 Watts
Switch Architecture	Back-plane (Switching Fabric): 1.0Gbps Packet size throughput : 64bytes~1522bytes	Operating Humidity	5% ~ 95% (Non-condensing)
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~70°C / -40°F~158°F (-E model)
Mac Address	2K MAC address table	Storage Temperature	-40°C~85°C / -40°F~185°F
Connectors	10/100TX: 4 x RJ-45 with auto MDI/MDI-X function 100M fiber: 1 x SC type connector for Single-mode or Multi-mode type fiber cable [Multi-Mode] power budget: Min: 9dB , MAX: 19dB. [Single-Mode] power budget: Min: 19dB , MAX: 26dB.	Case Dimension	Metal case. IP-30, 30 (W) x 95 (D) x 140(H) mm
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5, 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5, 6 cable EIA/TIA-568 100-ohm (100m)	Weight	800 g
Optical Cable	Multi-mode: 50/125um~62.5/125um Single-mode: 9/125um Available distance: 2km (Multi-mode) 30km (Single-mode) Wavelength: 1310nm (Multi-mode/Single-mode)	Installation	DIN Rail and Wall Mount Design
Protocol	CSMA/CD	EMI & EMS	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4
LED	Per port: Link/Activity (Green), Full duplex/Collision (Yellow) Per unit: Power 1 (Green), Power 2 (Green), Fault(Red)	Safety	CE/EN60950-1
Reserve polarity protection	Present	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Overload current protection	Present	MTBF	380717 hrs
		Warranty	5 years

**Optional

ORDERING INFORMATION

- **IES-0104FT-ST-MM.....P/N: 8350-332**
4 10/100TX + 1 100FX (ST, MM 2km) Industrial Switch, Standard Operating Temperature (-20°C~60°C)
- **IES-0104FT-SC-MM.....P/N: 8350-330**
4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch, Standard Operating Temperature (-20°C~60°C)
- **IES-0104FT-SC-SM.....P/N: 8350-331**
4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch, Standard Operating Temperature (-20°C~60°C)
- **IES-0104FT-SC-MM-AC.....P/N: 8350-330-AC**
4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch, Standard Operating Temperature (-20°C~60°C)
- **IES-0104FT-SC-SM-AC.....P/N: 8350-331-AC**
4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch, Standard Operating Temperature (-20°C~60°C)
- **IES-0104FT-E-ST-MM.....P/N: 8350-333**
4 10/100TX + 1 100FX (ST, MM 2km) Industrial Switch, Standard Operating Temperature (-40°C~70°C)
- **IES-0104FT-E-SC-MM.....P/N: 8350-335**
4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch, Wide Operating Temperature (-40°C~70°C)
- **IES-0104FT-E-SC-SM.....P/N: 8350-336**
4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch, Wide Operating Temperature (-40°C~70°C)
- **IES-0104FT-E-SC-MM-AC.....P/N: 8350-335-AC**
4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch, Wide Operating Temperature (-40°C~70°C)
- **IES-0104FT-E-SC-SM-AC.....P/N: 8350-336-AC**
4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch, Wide Operating Temperature (-40°C~70°C)

OPTIONAL ACCESSORIES

DIN Rail Power

- **MDR-40 Series** 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60°C ~ 70°C)
- **MDR-20 Series** 20W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

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